

IN THE CLAIMS:

The following is a complete listing of claims in this application.

1. (currently Amended) A rotational angle sensor, comprising:

a magnetic detector for detecting a rotational angle of a rotor based on a magnetic field generated between a pair of magnets respectively disposed across the rotational axis of the rotor and having a connection terminal;

a main terminal having a connection portion connected with the connection terminal of the magnetic detector; and

a holder member for holding the magnetic detector and the connection portion of the main terminal,

wherein the magnetic detector, the main terminal and the holder member are structured as a sensor assembly, and

wherein a potting material is positioned in the holder member so as to cover the magnetic detector and the connection portion between the connection terminal of the magnetic detector and the main terminal.

2. (previously presented) The rotational angle sensor as in claim 1, wherein the connection terminal of the magnetic detector and the main terminal are connected by welding.

3. (previously presented) The rotational angle sensor as in claim 1, wherein the holder member is provided with a guiding portion for guiding the magnetic detector to a predetermined assembled position.

Claim 4 (canceled).

5. (currently amended) The rotational angle sensor as in claim 4 1, further comprising a capacitor as a preventive measure for discharge of positive charges, wherein the capacitor is connected to the main terminal and covered with the potting material.

6. (previously presented) The rotational angle sensor as in claim 5, wherein the capacitor is disposed on the same side as the connection side of the main terminal connected with the magnetic detector.

7. (previously presented) The rotational angle sensor as in claim 5, wherein the main terminal is positioned in a stepped manner, wherein an exposed portion of the main terminal is disposed outside of the holder member.

8. (previously presented) The rotational angle sensor as in claim 5, wherein the capacitor includes leads.

9. (previously presented) The rotational angle sensor as in claim 8, wherein the leads of the capacitor are connected with the capacitor connections of the main terminals by welding.

10. (currently amended) The rotational angle sensor as in claim ~~4~~ 1, wherein the magnetic detectors are housed in the holder member such that a bottom surface within the holder member is formed in a predetermined spaced relationship to the contour shape of the magnetic detector facing the bottom surface.

11. (previously presented) The rotational angle sensor as in claim 1, further including a body made of resin, wherein the assembly is insert molded with subterminals, which are connected to the main terminal and connectable with terminal pins of an external connector.

12. (previously presented) The rotational angle sensor as in claim 11, wherein the holder member includes sidewalls, which is provided with a reinforcing rib for inhibiting deformation of the sidewalls caused by molding pressure when the resin molded body is resin molded.

13. (previously presented) The rotational angle sensor as in claim 11, wherein the holder member is provided on an outer surface thereof with a stepped surface intersecting an axis

such that a resin portion of the surrounding the holder member is prevented from burring on the same plane as the stepped surface.

14. (previously presented) The rotational angle sensor as in claim 13, wherein the stepped surface of the holder member is provided with a retaining recess, into which the resin portion flows.

15. (withdrawn) A method for manufacturing a rotational angle sensor, the method comprising the steps of:

providing a magnetic detector, a plurality of main terminal connections connected with a plurality of connection terminals of the magnetic detector, and a holder member for housing the magnetic detector and the connection portions of the main terminals;

press molding an electrically conductive sheet stock so as to form a main terminal unit in which the respective main terminals are connected via tie bars;

connecting each connection terminal of the magnetic detector with the main terminal unit so as to form a main terminal assembly;

positioning the magnetic detector of the main terminal assembly and the connection portions of the main terminals in the holder member; and

removing the tie bars from the main terminal unit.

16. (withdrawn) The method for manufacturing a rotational angle sensor as in claim 15, wherein the connections between the main terminal unit and the respective connection terminals of the magnetic detector are disposed in a row, while a welding head for welding the connection terminals of the magnetic detector and the main terminals at the connections is sequentially moved to the row direction as performing the welding.

Claim 17 (canceled).

18. (currently amended) A rotational angle sensor, comprising:

a magnetic detector having a connection terminal;

at least one main terminal connected with the connection terminal of the magnetic detector, the at least one main terminal including a connection portion; and

a holder member for holding the magnetic detector and the connection portion of the respective main terminal,

wherein the magnetic detector, the main terminals and the holder member are formed into an assembly to be structured as a sensor assembly, further wherein a potting material member is positioned within the ~~holding~~ holder member to encapsulate at least ~~a portion of the sensor assembly~~ the magnetic detector.

19. (previously presented) The rotational angle sensor as in claim 18, wherein each the connection terminal of the magnetic detector and the respective main terminal are connected by welding.

20. (previously presented) The rotational angle sensor as in claim 18, wherein the holder member is provided with a guiding portion for guiding the magnetic detector to a predetermined assembled position.

21. (currently amended) The rotational angle sensor as in claim 18, wherein the potting material member is positioned in the holder member so as to further cover ~~at least~~ the connection portion between the connection terminal of the magnetic detector and the respective main terminal.